Mountain Weather Forecast

Peak District National Park

Forecast valid from 00:00 on Sunday 10 Sep 2023 until 23:59 on Monday 11 Sep 2023

Forecast Issued on Saturday 09 Sep 2023 at 14:28

Confidence: High for a breakdown of the very warm and humid weather, with thunderstorms for some Sunday and Monday, although the exact locations for any thundery downpours remains low. Overall confidence then falls to be low for any rain and cloud detail from late Monday onward, and very low for the onset and details of more unsettled weather Thursday onward.

Headline for Sunday 10 Sep 2023: Very warm and humid with thunderstorms possible in places.

Mountain weather hazards on Sunday 10 Sep 2023

Blizzards
No Likelihood

Gales
No Likelihood

Thunderstorms
High Likelihood

Heavy persistent snow
No Likelihood

Severe chill effect
No Likelihood

Heavy persistent rain
Medium Likelihood

Storm force winds
No Likelihood

Poor visibility
Medium Likelihood

Strong sunlight
Low Likelihood

Weather and chance of precipitation at 600m							
Time							
00:00	03:00	06:00	09:00	12:00	15:00	18:00	21:00
Clear night	Partly cloudy (night)	Cloudy	Thunderstorm	Sunny intervals	Thunderstorm	Cloudy	Cloudy
Precipitation probability							
00%	<05%	30%	40%	30%	40%	30%	20%

Forecast for Sunday 10 Sep 2023

Weather: Dry during the early hours, but cloud increasing with an area of thundery showers spreading north during the morning. This clearing to sunny spells, and feeling very warm and humid again. Further heavy showers and thunderstorms developing. Any thunderstorms have the potential to bring torrential rain, large hail and frequent lightning. Showers largely easing away northwards during the evening with clear spells following, perhaps allowing mist or fog patches to form in valleys after dark.

Chance of cloud-free hill tops above 600m: 80%

Low cloud and visibility: Cloud well above summits for much of the day, but any thunderstorms will give a risk of brief cloud obscuring highest summits, at around 600m. Moderate to good visibility away from showers, with some hazy views of distant hills possible, but becoming poor to very poor in heavy rain or hail during any thundery downpours.

Check our weather forecast every day to get the most accurate and up to date information
https://www.metoffice.gov.uk/weather/specialist-forecasts/mountain
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Forecast for Sunday 10 Sep 2023

Height (m)	Wind Speed mean/gusts (mph)					Wind Direction (blowing from)			
	00:00	03:00	06:00	09:00	12:00	15:00	18:00	21:00	00:00
600	5/6 SE	6/8 SE	7/9 SE	9/13 E	9/13 SE	11/16 SE	11/16 S	12/18 SW	14/20 SW
300	2/3 E	3/4 E	4/7 E	4/8 SE	6/11 SE	6/12 SE	7/12 S	8/13 S	9/15 SW
Valley	1/3 NE	3/6 E	5/8 E	5/10 E	5/10 SE	6/13 SE	4/12 S	5/12 S	5/12 S

Height (m)	Temperature / Feels Like (°C)								
	00:00	03:00	06:00	09:00	12:00	15:00	18:00	21:00	00:00
600	20/20	19/19	19/18	19/18	20/20	20/19	19/18	18/16	16/14
300	21/22	20/21	20/20	21/22	23/24	22/23	22/22	20/20	18/18
Valley	19/20	18/19	19/20	21/22	24/25	22/23	21/22	20/20	18/19
Freezing Level*	3300m	3400m	3500m	3600m	3600m	3600m	3500m	3300m	3200m

**Level above which ground is expected to be frozen/snow is expected to settle.*

Meteorologist's View

Conditions have the potential to become very poor in thunderstorms, hail and heavy downpours. Anyone caught on the hills should ensure they have clear descent plans and knowledge of what to do when caught in one. While a touch less hot than recent days, it will be another very warm and humid day, with plenty of hydration needed.

Recent rainfall: measured at Cat & Fiddle: altitude 511m

Recorded at	Last 24 hours:	Last 48 hours:	Last 72 hours:
14:00 on Sat 09 Sep 2023	0mm	0mm	0mm

Forecast for Monday 11 Sep 2023

Weather: Overnight mist and fog patches possible in valleys, but soon clearing. Outbreaks of thundery rain likely spreading east later Monday morning. This breaking to give warm sunny spells but also a risk of further afternoon heavy showers and isolated thunderstorms. Cloud thickening from the west after dark.

Maximum wind: Southwesterly 15-20mph

Chance of cloud-free hill tops above 600m: 40% at first, improving to 90% by the afternoon, falling to 40% in the west after dark.

Low cloud and visibility: Areas of cloud at 400m during the morning. Cloud breaking and clearing hills by the afternoon. Further cloud returning to 500m during the evening from the west. Poor visibility in any thundery rain, but otherwise some good views away from showers. Very poor visibility in any early morning fog patches.

Temperature: **Valleys:** Plus 16 Celsius rising to Plus 25 Celsius
At 600m: Plus 16 Celsius
Freezing level: Above summits.

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